## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 25 August 2005 (25.08.2005)

PCT

(10) International Publication Number WO 2005/076732 A2

(51) International Patent Classification: Not classified

(21) International Application Number:

PCT/IL2005/000170

(22) International Filing Date: 10 February 2005 (10.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/544,353

17 February 2004 (17.02.2004) US

(71) Applicant (for all designated States except US): KERNEL BIOPHARMA INC. [IL/IL]; c/o Itschak Lamensdorf, Nahal Bezek 9/3, 71700 Modiin (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): LAMENSDORF, Itschak [IL/IL]; 1/8 Nahal Bezek Street, 71700 Modiin (IL).

(74) Agents: PEARL COHEN ZEDEK LATZER et al.; Shenkar 5, PO Box 12704, 46733 Herzlia (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

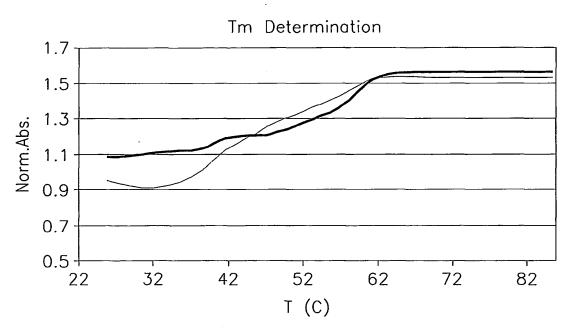
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PEPTIDE-PNA CHIMERA TARGETING INDUCIBLE NITRIC OXIDE SYNTHETASE



(57) Abstract: Peptide Nucleic Acid (PNA) antisense specific for inducible nitric oxide (iNOS) wherein the PNA compound is composed from nucleic acid sequence targeting iNOS, a peptide ligand which binds to a specific receptor, a positively charge moeity and an hydrophobic moiety. The invention also relates to the use of these compounds for the treatment of multiple sclerosis, neurodegenerative disorders, acute brain insults or other diseases where iNOS is involved.

